

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-12 (canceled)

13. (canceled)

14. (currently amended) A two or more component material system for use in 3D-printing comprising:

a first component comprising a solvent,

a second component comprising [[a]] binder particles
soluble in the solvent, and

optionally, filler materials in the form of particles
as a third component or in said first or second component,

wherein the material system contains two complementary
polyelectrolytes and/or an initiator for a crosslinking
reaction of the binder, and

wherein the two complementary polyelectrolytes are
contained in two binders, respectively, or in a binder and
in the solvent.

15. (previously presented) A material system according to claim 14, wherein the initiator is contained in the solvent or in the one or both binders.

16. (previously presented) A material system according to claim 15, wherein the initiator is a photoinitiator.
17. (currently amended) A material system according to claim 14, wherein the filler particles are ~~material is~~ coated with the binder.
18. (previously presented) A material system according to claim 14, wherein the material system is residual-ash-poor.
19. (previously presented) A material system according to claim 14, wherein the material system is flowable in an autoclave.
20. (currently amended) A material system according to claim 14, wherein at least a substantial portion of the filler material ~~powder~~ and binder particles is in the form of rounded-off particles.
21. (previously presented) A material system according to Claim 20, wherein average particle diameter of said particles is smaller than approximately 40 μm .
22. (currently amended) A two or more component material system for use in 3D-printing comprising:
a first component comprising a solvent,

a second component comprising [[a]] binder particles
soluble in the solvent, and

optionally, filler materials in the form of particles
as a third component or in said first or second component,

wherein the material system contains two complementary
polyelectrolytes and/or an initiator for a crosslinking
reaction of the binder, and

wherein the filler material is comprised of wax, PS,
PMMA or POM.

23. (previously presented) A material system according to
claim 14, wherein the filler material is comprised of
metal, ceramic or carbide.
24. (previously presented) A material system according to
claim 14, wherein the binder is comprised of a water-
soluble polymer.
25. (previously presented) A material system according to
claim 24, wherein the water-soluble polymer is PVP or a
copolymer thereof.
26. (currently amended) A two or more component material
system for use in 3D-printing comprising:
a first component comprising a solvent,
a second component comprising [[a]] binder particles
soluble in the solvent, and

optionally, filler materials in the form of particles as a third component or in said first or second component,

wherein the material system contains two complementary polyelectrolytes and/or an initiator for a crosslinking reaction of the binder, and

wherein the binder comprises less than 10 weight percent of the material system.

27. (previously presented) A process for producing a three dimensional shape, the process comprising:

(a) providing a layer of a solvent-soluble binder and, optionally, filler materials,

(b) printing said layer with a solvent in a pattern to activate said binder,

(c) repeating steps (a) and (b) until said three-dimensional shape is formed,

wherein the material system comprised of binder, solvent and optionally filler materials contains two complementary polyelectrolytes and/or an initiator for a crosslinking reaction of the binder.